

XXXVIII.—*Descriptions of new Species of Pyralidæ of the Subfamily Pyraustinæ.* By Sir GEORGE F. HAMPSON, Bart., F.Z.S., &c.

[Continued from vol. x. p. 573.]

(2 a) *Cliniodes seriopunctalis*, sp. n.

*Margaronia innotata*, Druce, Biol. Centr.-Am., Het. ii. p. 228 (part.).

♂. Head, thorax, and abdomen white, the head and legs tinged with rufous. Fore wing silvery white; the costa tinged with rufous; subterminal and terminal series of black points. Hind wing semihyaline white.

*Hab.* COSTA RICA, Rio Sucio (*Rogers*), 1 ♂ type. *Exp.* 32 mm.

(1 a) \**Heortia polyplagalis*, sp. n.

♂. Differs from *H. dominalis* in the fore wing having only a slight trace of orange at base of inner area; a yellow lunulate spot on each side of discocellulars; a broad pale yellow subterminal patch between veins 7 and 4 and a small quadrate spot further from termen above vein 1.

*Hab.* CELEBES, Palos B., Tawaya (*Doherty*). *Exp.* 50 mm. Type in Coll. Rothschild.

(1 a) *Lepyrodes lacustrinalis*, sp. n.

(Fore legs wanting); fore and hind wings normal.

♂. Head and thorax pale brown; palpi white in front and at tips; sides of frons with white streaks; vertex of head white; tegulæ and patagia with white fascia on outer edge; pectus and base of legs white, the tibiæ and tarsi tinged with fuscous; abdomen dorsally pale brown, with series of white spots, the ventral surface white, with black segmental bands, anal tuft black. Fore wing pale brown with fuscous-edged white markings; a narrow band close to base; a subbasal band from below costa to inner margin; an antemedial band from below costa to inner margin, its inner edge slightly angled outwards on median nervure; two bars in end of cell enclosing a round brown spot between them, the outer bar confluent with a quadrate patch from cell to vein 1; an oblique, rather irregular, wedge-shaped postmedial patch from below costa to vein 4; an oblique conical patch from beyond lower angle of cell to near tornus; a bar from below costa towards apex to vein 5 and a subterminal band from

vein 5 to below 3; cilia whitish, with a fine dark line near base. Hind wing white, with pale brown markings edged with fuscous; an irregular discoidal spot; a postmedial irregular N-shaped band, bent outwards between veins 5 and 2, where it is connected with the terminal band, then retracted to lower angle of cell, then oblique, expanding into a triangular mark below vein 2 and ending in a curved blackish line at tornus; a terminal band expanding into a patch at apex and narrowing to a point at tornus; cilia blackish at base, white at tips.

*Hab.* NEW GEORGIA (*Meek*), 1 ♂ type. *Exp.* 32 mm.

(2 a) *Analyta nigriflavalis*, sp. n.

♂. Head, thorax, and abdomen pale yellow; palpi with black patch at side of second joint; tegulæ, shoulders, patagia, pro- and metathorax with black patches; fore tibiæ with black band; abdomen with black dorsal patch on second and third segments and the anal tuft black. Fore wing pale yellow; a small black spot at base of costa; a rather diffused double black subbasal band; an indistinct orange-yellow spot in end of cell, discoidal bar, and obscure spot below middle of cell; a postmedial black patch from costa to discal fold, then a line bent outwards and waved between veins 5 and 2, with slight streaks before it on the veins, their basal ends connected by a diffused band, with a line from it to inner margin and an elongate patch beyond the line above inner margin; an obscure orange subterminal line oblique below apex, angled inwards at vein 5, then bent outwards and waved. Hind wing pale yellow; an orange-yellow discoidal spot; a postmedial blackish line from costa to discal fold and an oblique line from below angle of cell to above tornus; a black subterminal patch from costa, along which it is bent inwards, to discal fold, with some orange-yellow suffusion below it and a blackish striga from submedian fold to vein 1; cilia with an orange-yellow line near base and white tips.

*Hab.* L. NIGERIA (*Sampson*), 1 ♂ type. *Exp.* 26 mm.

(5 a) *Leucinodes melanoleuca*, sp. n.

♂. Head, thorax, and abdomen white irrorated with some black scales, especially on abdomen except at base; palpi above and sides of frons black; pectus, legs, and ventral surface of abdomen white, the fore tibiæ black. Fore wing white, semihyaline except the marginal areas, which are irrorated with a few black scales; the base largely irrorated

with black and with two indistinct waved black subbasal lines; a discoidal spot defined by a few black scales, its upper part filled in with pale red-brown and with a pale red-brown spot above it below costa; postmedial line represented by a slight brown mark from costa, a curved series of black points on veins 7, 4, 3, 1, and a bar from vein 6 to below 5, with some black irroration just beyond the bar and on termen and above inner margin before termen. Hind wing white, semi-hyaline except the terminal area; some black at base; a pale brownish discoidal spot defined by some black scales and dilated below; two striæ of black scales on inner area towards tornus; a diffused postmedial black spot below costa, followed by minute pale brown and black spots to vein 3, and a larger spot below vein 2; a subterminal pale brown and black shade from below costa to vein 3 and a diffused mark towards tornus; a series of black points and striæ on termen; cilia with dark line at middle to vein 4, where the tips are dark.

*Hab.* PERU, Cerro de Pasco, Huancabamba, 1 ♂ type.  
*Exp.* 34 mm.

(3 a) *Sameodes microspilalis*, sp. n.

♀. Yellow-brown; palpi white at base; pectus brown mixed with grey; abdomen with white segmental lines. Fore wing with small hyaline spots defined by black; two obliquely placed antemedial spots in and below cell; medial spots in and below cell usually with a small elongate spot between them above base of vein 2; small spots beyond the cell above and below vein 6, with others rather nearer termen above and below vein 7 and below veins 5 and 4; some slight black and whitish streaks on costa towards apex; a fine punctiform black terminal line; cilia whitish tinged with fuscous except at base. Hind wing slightly tinged with fuscous towards termen, with hyaline white markings defined by black; the base white, with black line on its outer edge; an oblique medial band from subcostal nervure to vein 1; a spot beyond the cell defined by black on inner side; a black postmedial line with series of small white spots on its outer edge, oblique from below costa to vein 5, excurved to vein 2, then retracted to outer edge of the medial band; a black terminal line; cilia white, with a black line through them. Underside of both wings grey irrorated with fuscous.

*Hab.* MASHONALAND, Salisbury (*Marshall*), 3 ♀ type.  
*Exp.* 22 mm.

(6 a) *Sameodes argentifera*, sp. n.

♀. Head and thorax yellow tinged with rufous, the dorsum of thorax tinged with brown; abdomen ochreous white, with dorsal brown bands except on basal segments, the ventral surface with brown band before the anal tuft. Fore wing yellow suffused with blood-red, leaving a yellow point at base of costa, a subbasal spot on median nervure, antemedial streak in submedian fold, a spot in end of cell, and spots on termen below apex and middle; subbasal black streaks on costa and in cell; the scale-tooth on inner margin tipped with black; an oblique antemedial series of black and silver spots, bent inwards to costa; small black and silver spots at and beyond upper and lower angles of cell, with a small spot above them below the costa; a postmedial series of black and silver spots oblique from costa to vein 7, then inwardly oblique, and the spot in submedian interspace displaced towards base; two silvery streaks below apex, points just before termen above and below vein 5, a small spot above vein 2 and spot at tornus; cilia yellow tinged with red. Hind wing yellowish suffused with fuscous brown; cilia pale yellow, with a slight dark line at middle towards tornus. Underside of fore wing fuscous, the cell at base, a spot in its extremity and the area below it, the costa towards apex, and the terminal area except below apex yellow; hind wing fuscous, with the costal area yellow to beyond middle.

*Hab.* QUEENSLAND, Kuranda (*Dodd*), 1 ♀ type. *Exp.* 16 mm.

(6 b) *Sameodes flavispila*, sp. n.

♂. Head and thorax pale crimson-red, the pectus and abdomen fulvous yellow. Fore wing crimson-red; a large round pale yellow patch, defined by deeper red on medial area from middle of cell to inner margin, and a similar smaller patch beyond the cell between veins 8 and 4. Hind wing pale fulvous yellow.

*Hab.* N. NIGERIA (*Dudgeon*), 1 ♂ type. *Exp.* 14 mm.

(7 a) *Sameodes rufiscripta*, sp. n.

♂. Head and thorax yellow suffused with rufous; palpi deep rufous, white below; pectus and legs white, the fore legs and mid femora suffused with rufous; abdomen yellow, the ventral surface white. Fore wing yellow, the costal area and inner margin bright rufous; antemedial line rufous,

oblique to vein 1, then incurved; a rufous spot in middle of cell and oblique discoidal bar; postmedial line brown, crenulate, bent outwards below vein 5, then oblique and ending at vein 2; a rufous terminal line. Hind wing yellow; postmedial line pale brown, slightly angled outwards below vein 5, then slightly waved to vein 2, where it is bent inwards to below end of cell, and not reaching inner margin; a rufous terminal line.

*Hab.* PERU, Cerro del Pasco, Huancabamba, 1 ♂ type.  
*Exp.* 32 mm.

(8 b) *Sameodes brunneoflavalis*, sp. n.

♂. Fulvous brown; palpi and frons darker; tegulæ blackish at sides and extremity, tarsi banded black and white; abdomen with dorsal series of dark points, the third segment with subdorsal points. Fore wing with the costal area fuscous, irrorated with grey to beyond middle; the antemedial line oblique and sinuous; large grey-centred spots in middle of cell and on discocellulars and a smaller spot below middle of cell; the postmedial line crenulate, excurved between veins 5 and 2, where it is retracted to below end of cell, then somewhat excurved again; the terminal area greyish fuscous, narrower at middle; a pale line at base of cilia. Hind wing with blackish discoidal bar; the postmedial line minutely waved, bent outwards between veins 5 and 2, then retracted to below end of cell; a terminal greyish-fuscous band, expanding on apical area and with waved inner edge; a black terminal line and a fine line at base of cilia.

♀ much yellower.

*Hab.* JAMAICA, Newcastle. *Exp.* 40 mm. Types in Coll. Rothschild and B.M.

(8 c) *Sameodes citrostictalis*, sp. n.

♂. Head and thorax red-brown mixed with some pale yellow; abdomen red-brown, with pale yellow segmental bands; palpi at base, pectus, legs, and ventral surface of abdomen white; fore legs brown in front, with pale band at end of tibiæ. Fore wing red-brown; two small pale yellow spots in cell, a spot below cell, and two small spots below vein 1; a round brown spot in middle of cell, followed by an oblong yellow spot and brown discoidal lunule with slight pale centre; an oblong yellow spot below middle of cell and small spot above base of vein 2; two small postmedial spots

above veins 7, 6, five rather wedge-shaped spots nearer the cell between veins 7 and 2, and a small spot below end of cell below vein 2, with traces of three small spots beyond them between veins 5 and 2; a fine yellow line at base of cilia. Hind wing pale yellow; a brown discoidal bar; post-medial line sinuous, bent outwards between veins 5 and 2, then retracted to lower angle of cell and not quite reaching inner margin; a terminal brown band narrowing to tornus, with three small yellow spots near its inner edge between veins 5 and 2; cilia chequered yellow and brown.

*Hab.* BOLIVIA, 1 ♂ type. *Exp.* 34 mm.

(8d) *Sameodes diopalis*, sp. n.

♂. Head and thorax pale ochreous mixed with brown; palpi brown except at base; brown bars on frons and between antennæ; pectus and legs white, the fore legs tinged with brown; abdomen white, dorsally tinged with ochreous brown. Fore wing ochreous yellow; the costal area brown; a somewhat diffused brown subbasal line; antemedial line brown, oblique to submedian fold, then erect, with some brown beyond it above vein 1 and somewhat annulate mark below it; a brown annulus in middle of cell and quadrate spot with ochreous bar on it on discocellulars; postmedial line brown, waved, excurved between veins 6 and 2, then retracted to below end of cell and erect to inner margin, the area beyond it brown, with small round ochreous spots above and below vein 7 and between veins 5 and 2; cilia chequered brown and ochreous. Hind wing semihyaline ochreous white; a brown discoidal bar and sinuous line from just beyond lower angle of cell to vein 1; a waved postmedial line, incurved at discal fold and ending on termen at vein 2; a lunulate terminal line expanding into a patch at apex; cilia white, chequered with brown from apex to vein 2.

*Hab.* JAMAICA, Castleton (*Kaye*), 1 ♂; BR. GUIANA, Potaro R. (*Kaye*), 1 ♂ type. *Exp.* 34 mm.

(8e) *Sameodes subcostalis*, sp. n.

Fore wing of male with the basal part of costa slightly dilated and with a slight groove below it, the apex produced.

Head and thorax ochreous yellow, the head and tegulæ suffused with red-brown; palpi white except at tips; pectus and legs white, the fore legs suffused with brown; abdomen ochreous suffused with brown, the ventral surface white. Fore wing yellow; the costal area tinged with red-brown; a

slight waved brown subbasal line and curved antemedial line ; a brown annulus in middle of cell and quadrate discoidal patch with yellow bar in centre ; postmedial line brown, slightly incurved below vein 7, then minutely waved, at vein 2 retracted to below angle of cell, with which it is connected by a small brown spot, then oblique to inner margin and slightly excurved at vein 1, the area beyond it reddish brown, with a series of small yellow spots between veins 8 and 2 just beyond the line, the spot at discal fold obsolescent ; a punctiform whitish line at base of cilia. Hind wing semihyaline yellow ; a pale brown discoidal bar ; postmedial line pale brown, bent outwards and waved between veins 5 and 2, where it is connected with the brown terminal band, narrowing to a point above tornus ; cilia white, chequered with brownish from apex to vein 2.

*Hab.* U.S.A., California, Colusa Co. (*Walsingham*), 4 ♂, 4 ♀ type ; Shasta Co. (*Walsingham*), 2 ♂. *Exp.*, ♂ 38, ♀ 32 mm.

(8 i) *Sameodes citronalis*, sp. n.

♀. Head and thorax ochreous white mixed with brown ; palpi white, brown towards tips ; pectus and legs white ; abdomen white, dorsally suffused with greyish fuscous. Fore wing lemon-yellow, the base and costal area brownish grey ; antemedial line brown, oblique from costal area to submedian fold, then erect, a brown-defined spot beyond it below vein 1 ; a brown annulus in middle of cell and small brown spot above vein 1 ; a lunulate brown discoidal patch with some ochreous in centre ; postmedial line brown, incurved below costa, then sinuous, excurved between veins 6 and 2, then retracted to below end of cell ; terminal area grey-brown, with yellow spots just beyond the postmedial line above and below vein 7 and small spots between veins 5 and 2. Hind wing semihyaline white, the terminal half suffused with lemon-yellow ; a small brown spot at lower angle of cell ; postmedial line brown, bent outwards and waved between veins 5 and 2 ; a brown terminal band, narrowing to a line below submedian fold ; cilia brownish, with a pale line near base from apex to vein 2, then white, with some brown striae near base.

*Hab.* MEXICO, Oaxaca (*Schaus*), 1 ♀ type. *Exp.* 34 mm.

(8 k) *Sameodes griseicincta*, sp. n.

*Sciorista oriolalis*, Druce, Biol. Centr.-Am., Het. ii. p. 212 (nec Guen.).

Head and thorax red-brown tinged with grey ; palpi

white, brown towards tips; pectus and legs white, the fore tibiæ brown in front; abdomen reddish brown, the ventral surface white. Fore wing yellow irrorated with brown, the basal and costal areas pale brown; antemedial line brown, oblique from the costal area to submedian fold, then erect; rounded brown spots in and below middle of cell, a quadrate discoidal patch, and minute spots beyond and below the lower angle of cell; postmedial line brown, dentate, at vein 2 retracted to below angle of cell; terminal area leaden-grey, its inner edge brown and slightly bent inwards at vein 2, leaving a series of yellow spots just beyond the postmedial line from below costa to vein 2; cilia brownish grey with an ochreous-white line at base. Hind wing pale semi-hyaline yellow; a brown discoidal lunule; postmedial line slight, brown, bent outwards and dentate between veins 5 and 2, where there is some brown irroration before it; terminal area leaden-grey with brown inner edge, not quite reaching tornus; cilia white, with slight brownish spots at base.

*Hab.* MEXICO, Jalapa (*Trujillo*), 1 ♀; GUATEMALA, El Tumbador (*Champion*), 1 ♀; COSTA RICA, Irazu (*Rogers*), 2 ♂, 1 ♀, Caché (*Rogers*), 1 ♂, R. Sucio (*Rogers*), 1 ♂, 1 ♀, Godman-Salvin Coll.; COLOMBIA, Popayan (*Lehmann*), 1 ♂ type. *Exp.* 26-36 mm.

(80) *Sameodes flavibaccata*, sp. n.

*Samea phyllisalis*, Druce, Biol. Centr.-Am., Het. ii. p. 555 (nec Wlk.).

♂. Head and thorax dark brown mixed with some greyish; palpi yellowish white, brown at tips; pectus and legs yellowish white suffused with brown; abdomen brown, ventrally whitish. Fore wing yellowish white, the basal and costal areas suffused with dark brown; antemedial line dark brown, oblique to median nervure, then erect, a brown patch beyond it on inner area conjoined to a spot below the cell; a rounded brown spot in middle of cell and quadrate discoidal patch; postmedial line brown, sinuous, excurved between veins 6 and 2, then retracted to below end of cell; terminal area leaden-grey suffused with dark brown towards inner edge and leaving small yellow spots just beyond the postmedial line above and below vein 7 and between veins 5 and 2; a fine dark terminal line; cilia chequered white and brown. Hind wing yellowish white; a slight brown streak below base of cell; a black-brown discoidal bar; postmedial line incurved at discal fold, excurved between veins 5 and 2, then retracted to below angle of cell and oblique to above



tornus; terminal area leaden-grey suffused with dark brown towards its inner edge and leaving a yellow band just beyond the postmedial line from below costa to vein 2; a black terminal line; cilia chequered white and blackish.

♀. Wings much yellower, the terminal area black-brown with a purple gloss.

*Hab.* GUATEMALA (*Sadler*), 1 ♂ type, Sabo (*Champion*), 1 ♀, V. de Atitlan (*Champion*), 1 ♀, Zapote (*Champion*), 1 ♀; COSTA RICA, Candelaria Mts. (*Underwood*), 1 ♂, Godman-Salvin Coll.; PANAMA, La Chorrera (*Dolby-Tyler*), 2 ♂, 1 ♀, Taboga I. (*J. J. Walker*), 1 ♀; BRAZIL, Pará (*Trumbill*), 1 ♂, Manaos (*Trumbill*), 1 ♀. *Exp.* 18-26 mm.

(9 a) *Sameodes stictoperalis*, sp. n.

♂. Head and thorax dark brown mixed with fiery red and yellow; palpi white at base; antennæ white ringed with brown on basal half; abdomen dark brown and red on dorsum, white at base; pectus, legs, and ventral surface of abdomen white, the fore tibiæ banded with red. Fore wing semihyaline yellow with slight fuscous irroration; the costa dark brown mixed with fiery red, expanding at base to inner margin, at middle of cell into a triangular spot, at end of cell into a discoidal lunule, and at apex into a large semi-circular patch extending to vein 5, with waved inner edge and with red-edged yellow spots on it below veins 8, 7, 6; traces of an antemedial line strongly excurved above inner margin and of an oblique waved postmedial line; small brown and red spots on termen at veins 4, 3, 1 and a larger spot at vein 2. Hind wing semihyaline yellow with slight fuscous irroration; a faint spot at upper angle of cell and black point at lower angle; traces of an irregularly waved postmedial line; a fiery red and brown patch at apex, small terminal spots at veins 5, 4, 3 and larger spots at vein 2 and tornus.

*Hab.* PERU, Huancabamba, 2 ♂ type. *Exp.* 36 mm.

(11 a) *Sameodes furvipicta*, sp. n.

♂. Head and tegulæ brownish ochreous; thorax and abdomen pale grey-brown, the latter whitish at extremity; palpi blackish above and white below, the tips yellow; pectus, legs, and ventral surface of abdomen white, the fore legs tinged with brown. Fore wing grey-brown with a leaden gloss; the base of costal and inner areas fulvous red; the costa pale yellow; an antemedial white spot defined by

fulvous red from costa to below the cell ; a medial white band defined by fulvous red from costa to above inner margin, formed by two spots separated by a red streak on median nervure ; a postmedial white spot defined by fulvous red from costal area to vein 3 ; the terminal area yellow except at apex and expanding between veins 6 and 2. Hind wing with the basal half fulvous red ; a large hyaline white patch beyond the cell and an oblique spot below end of cell ; a dark postmedial band tinged with leaden-grey ; the terminal area yellow, narrowing to tornus ; the inner margin yellow.

*Hab.* DUTCH N. GUINEA, Snow Mts., Up. Setekwa R. (*Meek*), 1 ♂ type. *Exp.* 22 mm.

(15 a) *Sameodes roseocinctalis*, sp. n.

♂. Head white ; palpi and antennæ fulvous ; thorax yellow suffused with pink ; pectus rufous ; legs black, the tarsi white ; abdomen yellow. Fore wing pale yellow ; the costal area pink ; the terminal area pink, rather broad at apex, narrowing to a point at tornus. Hind wing ochreous white. Underside of fore wing with the costa black irrorated with white to towards apex ; hind wing with the costal area tinged with pink, the base of costa white irrorated with black.

*Hab.* CAPE COLONY, Rosmead (*S. Juby*), 1 ♂ type. *Exp.* 22 mm.

(5 a) *Thliptoceras xanthocraspia*, sp. n.

♀. Head, thorax, and abdomen yellowish white mixed with some reddish brown ; pectus, legs, and ventral surface of abdomen white. Fore wing pale yellow suffused with reddish brown and dark brown, the apex and termen yellow ; a triangular yellow patch from middle of costa to just below the cell ; an indistinct dark postmedial line, excurved from below costa to vein 3, then retracted to lower angle of cell. Hind wing yellowish white faintly tinged with brown.

*Hab.* TRANSVAAL, White R. (*Cooke*), 1 ♀ type ; NATAL, Victoria Distr. (*Gooch*), 2 ♀. *Exp.* 16 mm.

(3 a) *Archernis albicostalis*, sp. n.

Palpi with the third joint very long ; fore wing with the termen excurved at middle, then excised.

♀. Head white ; palpi with some dark scales on second joint above ; thorax pale brown, whitish in front ; abdomen pale brown ; pectus, legs, and ventral surface of abdomen

white. Fore wing pale brown, the costal area white to near apex; a quadrate white spot in end of cell conjoined to the costal area; cilia white at base. Hind wing pale brown, the costal area white to near apex; cilia whitish at base. Underside of both wings white.

*Hab.* BORNEO, Sandakan (*Pryer*), 1 ♀ type. *Exp.* 28 mm.

(11) *Archernis fulvalis*, sp. n.

♂. Head and thorax fulvous yellow; pectus, legs, and abdomen yellowish white. Fore wing pale fulvous yellow; traces of an oblique, wavy, rufous antemedial line from subcostal nervure to submedian fold, with more prominent spot below the cell; a brown discoidal spot; traces of a wavy postmedial line, incurved from below costa to vein 5, excurved to vein 2, then retracted to below end of cell and oblique to inner margin. Hind wing pale yellow; the underside with slight brown point on upper discocellular, a postmedial series of brown points incurved from below costa to vein 5, excurved to vein 3, then retracted to below angle of cell.

*Hab.* SOCIETY IS. (*J. J. Walker*), 1 ♂ type. *Exp.* 28 mm.

(1 a) *Megastes meridionalis*, sp. n.

♂. Head and thorax pale ochreous mixed with red-brown; abdomen brown with some whitish at base of dorsum. Fore wing whitish, the basal area except towards inner margin, the costal area, and the terminal area suffused with pale reddish brown; some dark brown at base and on outer part of the basal brownish area; antemedial line black-brown, oblique and sinuous to median nervure, then incurved, an elongate brown spot beyond it in submedian fold, and a brown-defined spot below vein 1; a round brown spot in middle of cell and diffused discoidal patch; postmedial line brown, obliquely excurved from costa to vein 6, incurved at discal fold, excurved and wavy between veins 5 and 2, then retracted to below end of cell and oblique to inner margin, small brown spots in its sinus between veins 5 and 3, defined on outer side by a maculate whitish band, with slight dark marks on its outer edge and with some whitish before it in the sinus. Hind wing semihyaline white; a small brown discoidal spot; postmedial line maculate from costa to discal fold, then slight and bent outwards between veins 5 and 2, where it terminates; some brownish on termen from apex to vein 3.

*Hab.* ARGENTINA, La Plata, 1 ♂ type. *Exp.* 34 mm.

(1 c) *Megastes brunnealis*, sp. n.

♀. Head and thorax grey-brown mixed with rufous; palpi, pectus, and legs grey-brown; abdomen grey-brown, with some rufous at base of dorsum. Fore wing rufous slightly suffused with brown, the basal area except towards inner margin, costal area, and the terminal area grey-brown; antemedial line fuscous, wavy; brown annuli in and below middle of cell, a quadrate discoidal patch, and some dark suffusion beyond lower angle of cell; postmedial line dentate, oblique to vein 6, at vein 2 retracted to below angle of cell and oblique to inner margin, a series of hyaline lunulate spots beyond it from below costa to vein 2 and beyond the retracted portion; the dark terminal area expanding widely on inner area. Hind wing semihyaline white tinged in parts with brown; brown points at middle of discocellulars and lower angle of cell; postmedial line brown, wavy, bent outwards between veins 5 and 2, then retracted to below angle of cell and oblique to tornus, the area beyond it brown, leaving a lunulate hyaline band beyond the line.

*Hab.* JAMAICA, Prattville, 1 ♀ type. *Exp.* 52 mm.

(1 d) *Megastes septentrionis*, sp. n.

*Megastes praxiteles*, Druce, Biol. Centr.-Am., Het. ii. p. 215 (part.).

Head, thorax, and abdomen ochreous mixed with red-brown. Fore wing ochreous, the basal and costal areas suffused with reddish brown; antemedial line brown, excurved below the cell and slightly angled inwards at vein 1, brown annuli beyond it in and below cell, and a brown-defined mark below vein 1; a large quadrate brown discoidal patch; postmedial line brown, obliquely incurved from costa to vein 5, slightly bent outwards and wavy to vein 2, then retracted to lower angle of cell, and oblique and sinuous to inner margin, a series of spots beyond it defined by a wavy brown subterminal line from costa to vein 2 and a brown mark below vein 2; a slight brown terminal line. Hind wing ochreous; a subbasal brown bar below the cell; an antemedial line from cell to inner margin; an ochreous discoidal lunule defined by brown; postmedial line brown, oblique and slightly wavy to vein 6, bent outwards and wavy between veins 5 and 2, then retracted to lower angle of cell and oblique to above tornus, a series of spots beyond it defined by an irregularly wavy subterminal line; a brown terminal line.

*Hab.* MEXICO, Jalapa (*Trujillo*), 1 ♂; GUATEMALA, Las Mercedes (*Champion*), 1 ♀ type, Godman-Salvin Coll. *Exp.*, ♂ 42, ♀ 48 mm.

(5) *Omphisa caustalis*, sp. n.

Antennæ of male laminate.

♂. Head rufous mixed with whitish; palpi white at base; thorax deep red-brown with whitish spots on pro- and metathorax; pectus and legs white, the fore tibiæ with fuscous band at extremity; abdomen rufous, with dorsal series of small pure white spots, the basal segment with two spots, the penultimate with three, the ventral surface white except at extremity. Fore wing deep rufous, the costal area except at base and the terminal area whitish tinged with rufous; an indistinct, curved, red-brown, antemedial line, defined by whitish on inner side except towards inner margin; a small hyaline spot towards extremity of cell; postmedial line brown, waved, incurved at discal fold, below vein 3 retracted to lower angle of cell, then oblique, with large, irregular, whitish patch before it beyond lower end of cell and small spots beyond it between veins 8 and 3 defined by brown, the spot below vein 7 larger, below vein 2 defined by yellowish on outer side and with slight yellowish mark on inner side; a slightly waved brown terminal line. Hind wing whitish tinged and irrorated with rufous, leaving the base and a medial band whiter; an oblique deep brown line before the medial band from the discoidal spot to near tornus; postmedial line bent outwards and minutely waved between veins 5 and 2, then retracted towards lower angle of cell, defined by white on outer side towards costa and with small brown-edged spots beyond it between veins 5 and 2; a slightly waved brown terminal line; cilia white tinged with rufous, intersected by rufous and with rufous patch towards tornus. Underside white; fore wing with small fuscous annuli in cell and on discocellulars, the postmedial line represented by incomplete fuscous annuli; hind wing with fuscous discoidal annulus and maculate, postmedial, irregular line.

*Hab.* UGANDA, Ketoma (*Doggett*), 1 ♂ type. *Exp.* 32 mm.

Genus PYRALAUSTA, nov.

Proboscis well developed; palpi porrect, the second joint extending about twice the length of head and fringed with long hair below, produced to a point in front, the third long,

naked, acuminate; maxillary palpi triangularly scaled; frons with tuft of hair; antennæ of female ciliated; tibiæ with all the spurs long. Fore wing triangular; veins 3 and 5 from near angle of cell; 6 from below upper angle; 7 straight and well separated from 8, 9; 10, 11 from cell. Hind wing with veins 3, 4, 5 from angle of cell; 6, 7 from upper angle; 8 anastomosing with 7 to two-thirds of wing.

*Pyralausta bivialis*, sp. n.

♀. Pale cupreous brown; palpi white at base; pectus, mid and hind legs, and ventral surface of abdomen white. Fore wing with oblique white antemedial band from subcostal nervure to inner margin, defined by a brown line on outer side; a white discoidal lunule; an oblique white postmedial band from just below costa to inner margin, defined by a brown line on inner side and slightly excurved at middle; a terminal series of fuscous points. Hind wing whitish suffused with cupreous brown, especially towards termen; an oblique whitish postmedial band, defined on inner side by a slight brown line; a slight fuscous terminal line.

*Hab.* BORNEO, Sarawak (*Wallace*), 2 ♀ type. *Exp.* 22 mm.

(6 a) *Evergestis canalesialis*, sp. n.

Head and thorax black mixed with grey and white; palpi white at base; sides of frons white; abdomen black irrorated with whitish and with white segmental lines, the ventral surface greyer. Fore wing black irrorated with ochreous white; slight white marks at base of cell; antemedial line white, slightly angled inwards at submedian fold; medial line white, slightly angled outwards in cell and inwards at vein 1; two more or less distinct white discoidal points; postmedial line white, oblique from vein 5 to submedian fold, then outwardly oblique; subterminal line white, oblique towards costa, angled inwards and more or less obsolescent at discal fold, excurved at middle, and interrupted at submedian fold; cilia chequered black and white and with a black line near base. Hind wing blackish, the costal area whitish to beyond middle; postmedial line white, slightly excurved at vein 5 and ending at submedian fold; a subterminal white bar between veins 4 and 2; cilia chequered blackish and white and with a blackish line near base; the underside with some white in, below, and beyond the cell, a black discoidal lunule, the postmedial line continued to inner

margin and angled inwards at discal and submedian folds, some white marks just before termen.

*Hab.* SPAIN, Castille, Canales (*Chapman*), 2 ♂, 2 ♀ type.  
*Exp.* 20 mm.

(3 a) *Ischnurges rhodographalis*, sp. n.

Head and thorax ochreous suffused with pink; legs whitish; abdomen ochreous dorsally suffused with pink, irrorated with a few dark scales, and with slight white segmental lines. Fore wing yellow irrorated with pink; the costal area suffused with pink, the costal edge white; a diffused, erect, pink antemedial line; a dark point in cell towards extremity and discoidal bar; postmedial line pink, diffused, slightly curved from costa to vein 3, then bent inwards to below end of cell and erect to inner margin; the terminal area suffused with pink, broadly at costa, narrowing towards tornus; cilia pale yellow. Hind wing pale yellow; a slight curved pink postmedial line from costa to vein 2; the terminal area tinged with pink, broadly at apex, narrowing to a point at vein 1; cilia yellowish white.

*Hab.* BR. E. AFRICA, Eb Urru (*Betton*), 1 ♂, 1 ♀ type.  
*Exp.*, ♂ 20, ♀ 22 mm.

(9 a) *Hyalobathra inflammata*, sp. n.

♀. Head, thorax, and abdomen crimson-red; antennæ tinged with brown. Fore wing crimson-red, the costa fuscous; antemedial line fuscous, oblique to submedian fold, then inwardly oblique, a small spot just beyond it in cell and a discoidal bar; postmedial line fuscous, dentate and produced to streaks in the interspaces from costa to vein 2, below vein 4 bent inwards to below end of cell, then oblique to inner margin; a terminal line and the cilia fuscous. Hind wing crimson-red; a terminal line and the cilia from apex to vein 2 greyish fuscous, then the cilia whitish.

*Hab.* JOBI, Ansus (*Doherty*), 1 ♀ type. *Exp.* 38 mm.

(1 a) \**Azochis camptozonalis*, sp. n.

♀. Ochreous white; palpi black towards tips; abdomen with black dorsal bands on two medial segments. Fore wing with short subbasal black streak below costa and two spots above inner margin; an antemedial line oblique from costa to vein 1, then bent inwards to inner margin; a large spot in middle of cell and an oblique discoidal bar; the postmedial line thick, very oblique from middle of costa to

vein 5, then excurved to vein 3, where it is retracted to lower angle of cell, then very oblique and broad to inner margin; short subterminal streaks above veins 6, 7, dentate spots above veins 3, 4, 5, and a spot from above vein 2 to just above inner margin; cilia pale fulvous, with a series of black points. Hind wing semihyaline, with black discoidal spot; a postmedial spot between veins 5 and 6, with an excurved line from its outer edge to vein 3; two subapical points, a double spot on vein 5 and point below 4, and a bar between veins 2 and 1; a small spot on middle of inner area; cilia pale fulvous.

*Hab.* ECUADOR, Paramba (*Rosenberg*). *Exp.* 42 mm. Type in Coll. Rothschild.

(5) *Azochis cubanalis*, sp. n.

♂. Head and thorax red-brown mixed with whitish; palpi orange, white at base; tegulæ with black tips; patagia with black spots at base and blackish tips; pectus and legs white, the latter streaked with brownish, the fore tibiæ with black band; abdomen white, with dorsal patch of deep red suffusion on second to fifth segments, the anal tuft with fuscous mixed. Fore wing white; the basal area suffused with brown, a basal black spot on costa, subbasal spot below the cell and streak on inner margin, and a patch at middle of outer edge of the brown area formed of large raised black scales; a blackish spot in middle of cell and rather quadrate patch in end of cell connected with a curved patch from beyond upper angle of cell to below vein 2 below the cell, with some red-brown above it on costa; traces of a diffused brownish subterminal line; a lunulate black spot just before termen above and below vein 5. Hind wing semihyaline white; a minute black point at lower angle of cell, with traces of a line from it to a patch of blackish hair above tornus; traces of an oblique dark line from vein 6 to termen at vein 2; three slight blackish marks just before termen from apex to vein 4.

*Hab.* CUBA, Baracoa (*Schaus*), 1 ♂ type. *Exp.* 30 mm.

(18 a) *Crocidophora craspedalis*, sp. n.

♀. Head and thorax ochreous tinged with brown; palpi brown, white at base; frons with lateral white streaks; abdomen ochreous, dorsally suffused with brown and with slight white segmental lines. Fore wing ochreous slightly irrorated with brown, the costal area suffused with brown, the terminal area broadly suffused with brown; an indistinct



antemedial dark line excurved below cell ; a dark discoidal bar ; an oblique postmedial line excurved between veins 5 and 2 ; a terminal series of small black spots ; cilia brown, with fine pale line at base. Hind wing ochreous, the termen suffused with brown, rather broadly at apex, narrowing to a point at submedian fold ; traces of a postmedial line between veins 5 and 2 ; a terminal series of dark points from apex to vein 2 ; cilia brownish white, with dark line near base.

*Hab.* SIERRA LEONE (Clements), 2 ♀ type. *Exp.* 22-26 mm.

(4 a) *Polygrammodes atricosta*, sp. n.

♂. Head and thorax ochreous yellow, the head and front of thorax suffused with black ; palpi black ; antennæ pale ; fore legs suffused with black in front ; abdomen ochreous yellow. Fore wing pale yellow, the costa black to beyond middle and with some blackish suffusion below it ; traces of a brownish antemedial line ; a black discoidal bar ; an indistinct fulvous postmedial line with black point below costa, bent outwards and slightly waved between veins 5 and 2, then retracted to below end of cell ; an indistinct, waved, fulvous subterminal line, excurved between veins 5 and 2. Hind wing pale yellow ; a black discoidal point ; an indistinct fulvous postmedial line bent outwards between veins 5 and 2, then retracted to below end of cell and oblique to above tornus ; a faint, minutely waved, fulvous subterminal line from costa to vein 2.

*Hab.* AMBOINA (Doherty), 1 ♂ type. *Exp.* 28 mm.

(13 b) *Polygrammodes citrinalis*, sp. n.

Antennæ of male ciliated, the basal joint with large tooth on inner side and the base of shaft excised.

♂. Head, thorax, and abdomen yellow tinged with rufous ; antennæ brownish, the basal joint white at tip ; shoulders brown ; palpi white below ; legs white, the fore tibiæ brown except at extremity, the mid tibiæ streaked with brown above ; abdomen with the anal tuft grey-brown, the ventral surface whitish. Fore wing yellow irrorated with brown, the costal edge brown ; antemedial line brown, oblique to submedian fold, then erect ; orbicular and reniform with whitish centres defined by brown, the former round, the latter elliptical ; postmedial line brown, oblique to discal fold, angled outwards above and below vein 4, then again oblique ; a rather diffused, crenulate, brown subterminal

line, excurved at middle and bent inwards below vein 3; a brown line near base of cilia. Hind wing yellowish white, a brown subterminal line, excurved and slightly waved below vein 5 and ending at vein 2; cilia white, with a brown line near base.

*Hab.* DUTCH N. GUINEA, Fak-fak (*Pratt*), 2 ♂ type. *Exp.* 38-40 mm.

(18 a) *Polygrammodes sanguiguttalis*, sp. n.

Head and thorax ochreous yellow; palpi deep crimson, white at base; sides of frons, tips of tegulæ, and shoulders crimson; pectus and legs whitish, the fore coxæ, femora, and tibiæ crimson in front; abdomen whitish, dorsally tinged with ochreous and with crimson lateral stripes. Fore wing yellow; the costal area pink to beyond middle; a subbasal pink spot below cell; an antemedial spot in cell and another further from base below the cell; a round spot in cell towards extremity and two small discoidal spots; the inner margin pink from middle to tornus; a postmedial series of pink spots, slightly excurved between veins 5 and 2, then bent inwards and forming a band from vein 2 to inner margin, interrupted at vein 1; a subterminal series of small spots curved from costa to vein 2, then forming an oblique band; cilia pink. Hind wing pale yellow.

*Hab.* BRAZIL, Castro Paraña (*D. Jones*), 1 ♂; PARAGUAY, Sapucay (*Foster*), 1 ♀ type. *Exp.* 42 mm.

(18 c) *Polygrammodes semirufa*, sp. n.

♂. Head and thorax bright rufous mixed with some yellow; palpi deep rufous, white at base; sides of frons deep rufous; pectus and legs white, the fore legs dark brown in front, the tarsi brown and whitish; abdomen yellow suffused with rufous except at base, the ventral surface white. Fore wing deep rufous on costal area to beyond middle, on inner area to middle, the rest of wing yellow; a faint brown antemedial line, oblique from costa to submedian fold, then erect; postmedial line brownish, waved, excurved below costa and dentate between veins 5 and 2, then retracted to lower angle of cell and origin of vein 2, and excurved in submedian interspace, with white spots before it on the rufous area in discal fold and below end of cell and yellow spots between veins 5 and 2; subterminal line formed by a series of brown lunules, incurved at discal and submedian folds; a series of slight brown marks just

before termen; cilia with a series of black points at base. Hind wing yellow, the inner area slightly tinged with rufous; a rufous discoidal spot; postmedial line rufous, arising below costa, produced to three teeth enclosing small yellow spots between veins 5 and 2, then oblique to above tornus; an indistinct lunulate subterminal line, incurved at discal fold and below vein 2; slight brownish spots just before termen towards apex and tornus; cilia with series of black points at base; the underside yellowish white, with dark discoidal spot and postmedial line.

*Hab.* BRAZIL, São Paulo (*D. Jones*), 1 ♂ type. *Exp.* 46 mm.

(24a) \**Polygrammodes ectangulalis*, sp. n.

♀. Both wings with the termen excised below apex and strongly excurved, almost angled, at vein 4.

Head and thorax brown and black, with white marks on vertex of head and prothorax; the tegulae, patagia, and thorax with large scales which are blue-black at tips; pectus and legs white, the latter pale red-brown above; abdomen whitish, pale red-brown with some black at base and extremity, the medial part mostly black with some brown and whitish scales, the ventral surface white. Fore wing very pale red-brown; the basal area suffused with black; a curved ante-medial black line; small red-brown bar-shaped spots with dark edges in middle of cell and on discocellulars, with a blackish mark on costa above the latter; traces of a line just beyond the cell excurved to vein 3, then strongly incurved to below end of cell, becoming well marked and angled in submedian fold; the postmedial line oblique from costa to vein 5, then curved to tornus, where it develops into a black spot; a terminal series of black points and a spot above vein 5; some dark points on cilia and patch at tornus. Hind wing semihyaline white; a black discoidal point; the median nervure and veins at lower angle of cell white; the postmedial fuscous line much interrupted, obsolete towards costa, bent outwards between veins 5 and 2, then retracted to below angle of cell, and ending in a black patch above tornus; a terminal black band from apex to vein 4, broad at costa, and interrupted by the white veins.

*Hab.* S. BRAZIL, São Paulo. *Exp.* 48 mm. Type in Coll. Rothschild.

(25 c) *Polygrammodes sanguifrons*, sp. n.

♂. Head and thorax pale yellow, the tegulae deep yellow, the shoulders blood-red; palpi black, white at base; sides of frons blood-red; antennæ ochreous; fore coxæ and femora above blood-red, the fore tibiæ black, the mid and hind femoro-tibial joints black, the fore and mid tarsi banded with blackish; abdomen pale yellow. Fore wing pale yellow, the veins and costal area deeper yellow, the costal edge black to beyond middle; an antemedial pale fuscous point below the cell and faint fuscous discoidal mark; postmedial line pale fuscous, maculate from costa to vein 3, then bent inwards to vein 2 near its origin, angled outwards above vein 1 and oblique to inner margin; a subterminal series of pale fuscous spots in the interspaces, slightly incurved at discal fold. Hind wing pale yellow, the termen deeper yellow; postmedial line pale fulvous, arising as a spot in discal fold, bent outwards between veins 5 and 2, where it is retracted to below end of cell, then oblique to above tornus; a subterminal series of pale fuscous spots from costa to vein 2, below which it terminates in an oblique striga. Underside of fore wing with the costal area red to beyond middle, the costal edge black to near apex.

*Hab.* PERU, Agualani (*Ockenden*), 2 ♂ type. *Exp.* 52 mm.

(25 d) *Polygrammodes hyalescens*, sp. n.

Head, thorax, and abdomen yellowish white, the tegulae near tips and shoulders with orange-yellow patches; sides of palpi and frons brown; fore tibiæ tinged with brown, the tarsi ringed with brown. Fore wing yellowish white, thinly scaled, the costal area more ochreous and the costal edge fuscous; a slight brownish antemedial spot in cell and faint excurved line from cell to inner margin; a small brownish spot in middle of cell and slight discoidal bar; postmedial line pale brownish, waved, bent outwards between veins 5 and 2, then retracted to below end of cell and excurved in submedian interspace; a minutely waved brownish subterminal line and brownish terminal line. Hind wing semi-hyaline yellowish white; a faint brownish postmedial line, arising at vein 6, excurved and waved between veins 5 and 2, then retracted and ending at submedian fold; a very indistinct, minutely waved, brownish subterminal line from costa to submedian fold.

*Hab.* PERU, Carabaya, St. Domingo (*Ockenden*), 1 ♂, 1 ♀ type. *Exp.*, ♂ 30, ♀ 40 mm.

(29) *Polygrammodes brunneivena*, sp. n.

*Glyphodes nervosa*, Warr. Trans. Ent. Soc. 1889, p. 262, ♀ (nec ♂).

♀. Head, thorax, and abdomen yellowish white, the back of head and tegulæ tinged with orange, the patagia slightly tinged with brown; antennæ brown; abdomen with slight dorsal brown streak towards base. Fore wing semihyaline white, the veins pale red-brown, the costal area creamy white and thickly scaled; cilia pale red-brown. Hind wing semihyaline white, the veins and cilia pale red-brown.

*Hab.* BRAZIL, Amazons, Solimoes R., Uananaá (*Trail*), 1 ♀ type. *Exp.* 46 mm.

(30) *Polygrammodes phæocraspis*, sp. n.

♂. Head, thorax, and abdomen white, the back of head tinged with orange; antennæ fuscous; fore tibiæ brown above, the tarsi tinged with brown. Fore wing semihyaline white, the veins brownish, the costal edge fuscous. Hind wing semihyaline white, the veins brownish.

*Hab.* PERU, 1 ♂ type. *Exp.* 40 mm.

[To be continued.]

XXXIX.—*New Species of Heterocera from Costa Rica*.—XXI. By W. SCHAUS, F.Z.S.

Geometridæ.

Subfam. BOARMINÆ.

*Semiothisa pandaria*, sp. n.

♀. Head and abdomen brown tinged with yellow. Thorax lilacine grey. Wings grey, with darker grey striæ and fuscous irrorations, the lines yellow-brown; fine terminal fuscous-brown shading; cilia light brown. Fore wings: antemedial line faint, slightly outcurved; medial line darker, well marked, vertical; postmedial faint, more yellowish, outcurved on costa, followed by a vertical dull brown shade, its outer edge slightly outcurved between veins 7 and 5 and outwardly darker shaded from vein 4 to inner margin; termen brown; subterminal line pale; the apex slightly greyish. Hind wings: outer margin bluntly angled, the lines as on fore wings, but the termen not so brown. Fore wings below yellow striated with fuscous grey; the medial line fine; a fuscous line on discocellular; a fuscous outer